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REPORTED INDUCED ABORTIONS

MINNESOTA, 1982

Report No. 8

Minnesota Abortion Surveillance

December, 1983

Minnesota Center for Health Statistics
Minnesota Department of Health
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PREFACE

This report is the eighth in a series of analyses of data gathered during the Minnesota Abortion Surveillance. These data were collected, analyzed and prepared by the staff of the Minnesota Center for Health Statistics. Address correspondence to:

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INTRODUCTION

The Minnesota Abortion Surveillance is a statewide reporting system monitored by the Center for Health Statistics within the Minnesota Department of Health. Since introduction of the surveillance in 1974, data on abortions have been gathered through voluntary reporting by provider facilities throughout Minnesota. Continuous facility recruiting has been conducted to enlist all possible sources of abortion data, yielding the present 25 data providers enrolled on the system.

Analysis of data received through the surveillance has provided current public health information on abortions including demographic profiles of the abortion patients.

Since, by definition, a voluntary surveillance is subject to partial and incomplete reporting of events, this report and the data collected do not imply the complete and comprehensive status of legal abortion in Minnesota. The intention of this report is to describe as accurately as possible the situation as it was reported during the Surveillance period.

HISTORICAL RELATIONSHIP OF THE MINNESOTA ABORTION SURVEILLANCE TO NATIONAL ABORTION DATA

Although continuous reporting of induced abortions was initiated nationally by the Centers for Disease Control (CDC) in Atlanta during 1969, data on Minnesota women did not appear in CDC's "Surveillance Report" until 1972. In that year, 2,227 abortions to Minnesota resident women were reported by agencies outside Minnesota.[1] Abortion services first became available in Minnesota in 1973.[2] In 1973 and 1974, the CDC solicited reports of induced abortions from several hospitals and clinics in Minnesota. In 1974, the Minnesota Abortion Surveillance was established by the Center for Health Statistics, Minnesota Department of health, for the voluntary reporting of abortions performed in the state. The first year "testing phase" of the Surveillance provided CDC with three (3) months of survey data which CDC published in lieu of its solicited abortion data. 1975 marked the first complete year of the Minnesota-based Surveillance and since then annual abortion data have been supplied to CDC, as well as to other federal, state, and private agencies.

In 1980, the last year for which national data are available, CDC reported 1,553,890 abortions performed in the fifty (50) states and the District of Columbia. The national abortion ratio for that year was 430 abortions per 1,000 live births.[3] The Minnesota resident abortion ratio in the same year was 243.1 abortions per 1,000 live births.

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1 Centers for Disease Control: "Abortion Surveillance, 1972," issued April, 1974.

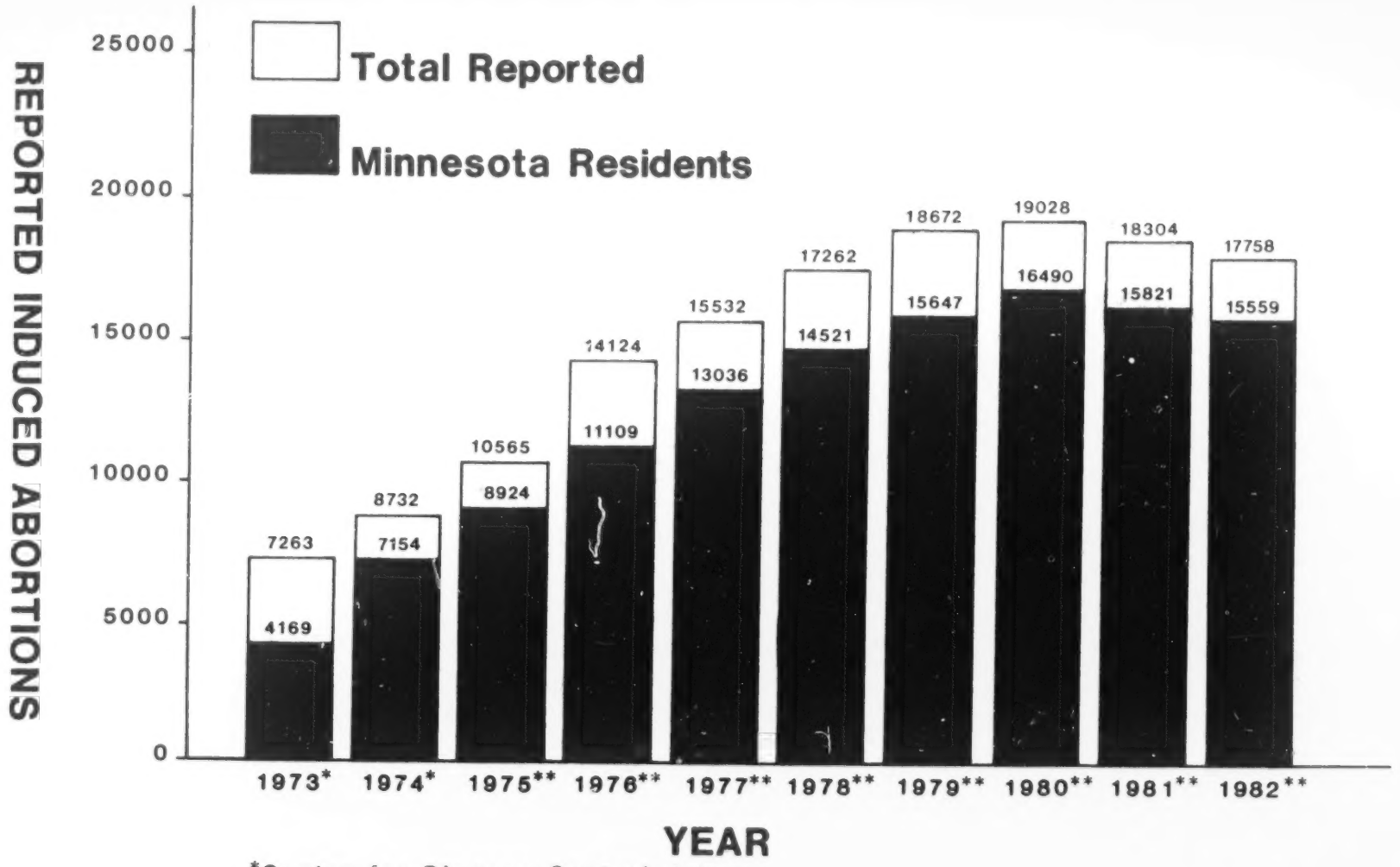
2 In 1973, a January 22 United States Supreme Court decision legalized abortion in the United States, superseding Minnesota prohibitions on abortions.

3 National Center for Health Statistics: "Monthly Vital Statistics Report." Vol. 31, No. 8, Issued November 30, 1982.

The number of resident and total abortions performed in the state per year from 1973-1982 is shown in Graph 1. As can be seen in Graph 1, the total number of reported abortions increased from 1973 to 1980 with 1981 showing the first decline. The greatest increase, of approximately 34%, occurred between 1975 and 1976. The first decrease in reported abortions occurred in 1981, a decrease of 3.8%. From 1981 to 1982 the total number of abortions decreased 3%.

The proportion of abortions to state residents versus total reported abortions in Minnesota is also shown in Graph 1. Over time, the proportion of resident abortions has fluctuated from a low of 79% in 1976 to a high of 88% in 1982.

GRAPH 1
REPORTED INDUCED ABORTIONS MINNESOTA 1973 to 1982



*Center for Disease Control data
**Minnesota Abortion Surveillance data

SOURCE: Minnesota Department of Health, Minnesota Center for Health Statistics

SURVEILLANCE RESULTS, 1982

Minnesota facilities reported 17,758 abortions in 1982, a 3.0% decrease from the 18,304 reported in 1981. The number of Minnesota resident women receiving abortions in Minnesota facilities showed a 1.7% decrease from 15,821 in 1981 to 15,559 in 1982.

The ages of Minnesota women receiving abortions was 12 to 51 years. Women under 20 years accounted for 28.0% of all reported procedures, while women 40 and over comprised 1.1% of the total. As shown in Table 1 (page 9), the proportion of abortion recipients under age 20 decreased from 36.1% reported in 1978 to the 1982 figure of 28.0%. During this period, the proportion of abortion recipients aged 40 and over stayed about the same, while there was an increase in the proportion of recipients 20-39 years old.

Never married women represented 70.7% of the resident women having abortions. Although 14.4% of all abortion recipients indicated they were married, only 2.2% of those younger than 20 years specified "currently married."

The race and ethnic distribution of Minnesota resident women receiving abortions in 1982 was 90.4% = White, 4.7% = Black, 1.0% = Indian, 0.8% = Hispanic, 2.7% = Other Races. These data reflect no major changes from 1981.

Prior abortions were reported in 28.9% of the overall resident reports, and by 34.9% of the women aged 20-39 years. One or more previous births was reported by 31.8% of all clients and by 93.8% of those aged 40 and over.

1980 was the first full year in which five category choices relative to abortion recipients' "contraceptive use at the time of conception" were available for reporting by Minnesota facilities. Prior to July, 1979,

facility coders categorized abortion recipient's contraceptive - use responses as: 1) Never used, 2) Have used but discontinued, 3) Was using at conception, or 4) Contraceptive use unknown. In July of 1979, a fifth category, "Interrupted use of usual method" was added to the reporting form. This new category means that the abortion recipient indicated regular contraceptive use, but during the cycle in which the pregnancy was conceived, missed a pill or two, did not always use a condom, did not use her diaphragm on one or two occasions, did not abstain during her fertile period, etc. Addition of the new category allows for clearer differentiation between contraceptive method failure and human error. However, these data are subjective since reporting relies on client recall, etc. During 1982, "interrupted use" was associated with 12.5% of the reported resident abortions.

As shown in Table 1 approximately three quarters of the 1982 Minnesota resident abortion recipients reported some prior contraceptive experience. Approximately one quarter reported contraceptive use at the time of conception. As this figure is subject to reporting error it may reflect more than mechanical failures of the contraceptive method. It very likely includes use failures; that is, the method was used carelessly or without knowledge or understanding of proper use. No prior use of contraception was indicated in approximately one in five of reported resident abortions.

As in previous Surveillance years, first trimester clients ($\leq$12 weeks gestation) accounted for the majority of all women receiving abortions (88.5%). Table 1 indicates that abortions in 1982 were done at an earlier gestational age than in previous Surveillance years. The proportion of abortions performed after 15 weeks gestation decreased from 5.6% in 1978 to 4.9% in 1982.

From 1975-1981 the highest resident abortion complication rate was 5.71 in 1975. The lowest resident abortion complication rate was 1.15 in 1979. A gradual increase in this rate was noted from 1979 to 1981. During 1979 data privacy regulations eliminated major channels through which staff of the Minnesota Center for Health Statistics previously verified complication reports, creating a greater margin of error relative to the reporting of actual abortion-related complications from that year forward. In 1982, 6.7 complications per 1,000 resident abortions were reported compared to 2.5 per 1,000 in 1981.

During 1982, the Minnesota Department of Health provided technical assistance to providers relative to the reporting of complications. Confusion among some providers was found relative to the types of complications to be reported on the "Report of Induced Abortion" form. The categories provided on the form do not differentiate between possible minor side effects of abortion and possible complications of abortion requiring treatment. In 1982, side effects experienced by abortion recipients were for the first time reported as complications, increasing the resident abortion complication rate from 1981 to 1982. In 1982, some facilities reported as complications minor side effects such as, heavy bleeding (not considered hemorrhage), uterine cramping, and elevated temperatures lower than 38 degrees C.

Abortion-related complications include any of the following factors: 1) Hemorrhage (500 ml. or greater), 2) Pelvic infection, 3) Fever (> 38^{0} C.), 4) Cervical injury, 5) Uterine perforation, 6) Retained tissue, 7) Continuing pregnancy (incomplete abortion), and 8) Any other medical complication related to the abortion procedure.

The abortion rate (number of abortions per 1,000 women aged 15-44) has fluctuated in the eight years of reporting. The Minnesota abortion rate in 1982 was 16.2 events per 1,000 women aged 15-44 as compared to the rate of 10.3 events observed in 1975.

Conclusion

For the second year in a row the number of Minnesota resident women receiving abortions in Minnesota facilities decreased. The total decrease since 1980 is 5.9% (16,490 events in 1980; 15,559 events in 1982). The proportion of women between the ages of 20-39 who had an abortion increased by 24.8% between 1978 and 1982 while the proportion of women under the age of 20 who had an abortion decreased 8.1%. The overall abortion rate increased by 57.3% between 1975 and 1982. In 1975 the rate was 10.3 events per 1,000 women aged 15-44, in 1982 the rate was 16.2 events per 1,000 women aged 15-44.

Most women who had an abortion at a Minnesota medical facility in 1982 were white residents, had never been married, had never had a previous abortion, were first trimester clients (less than 12 weeks gestation), had previous contraceptive experience, and experienced no complications.

Table 1

REPORTED INDUCED ABORTIONS
SELECTED SURVEILLANCE RESULTS AND COMPARISONS
MINNESOTA, 1978-1982

	1978[1]	1979	1980	1981	1982	Percent Change 1981-1982	Percent Change 1978-1982
Reported Induced Abortions							
Total Reported Abortions	17,262	18,672	19,028	18,304	17,758	-3.0	+2.9
Minnesota Resident Abortions	14,521	15,647	16,490	15,821	15,559	-1.7	+7.1
Total Monthly Average	1,438	1,556	1,586	1,525	1,480	-3.0	+2.9
Resident Monthly Average	1,210	1,304	1,374	1,318	1,297	-5.8	+7.2
Gestational Age[3]							
Proportion <9 weeks	35.4	36.4	38.1	45.6	47.9%	+5.0	+35.3%
Proportion <13 weeks	86.4	88.4	86.9	88.5	88.5	0	+2.4%
Proportion >16 weeks	5.6	4.1	5.4	4.8	4.9%	+2.1%	-12.5%
Client's Age[2]							
Proportion <Age 16	2.6	2.2	2.3	2.1	1.9%	-9.5%	-26.9%
Proportion <Age 20	36.1	35.8	34.6	30.9	28.0%	-9.4%	-22.4%
Proportion >Age 40	1.0	1.1	1.1	1.1	1.1	0	+10.0%
Contraception[2]							
Proportion "Never Used"	25.9	24.0	22.4	20.6	20.6	0	-20.5%
Proportion "Have Used but Discontinued"	45.5	44.8	40.7	44.9	42.0	-6.5%	-7.7%
Proportion "Was Using at Conception"	21.6	25.3	25.9	22.5	22.0	-2.2%	+1.9%
Proportion "Interrupted Use of Usual Method"[3]	N.A.	2.7	6.7	8.7	12.5	+43.7%	N.A.
Complications[2]							
Total Per 1,000 Procedures	2.90	1.18	2.52*	2.57	6.25		
Resident Per 1,000 Procedures	3.17	1.15	2.30*	2.53	6.68	(See footnote [5])	
Resident - Suction Curettage	2.84	0.82	1.71*	2.30	6.97		
Resident - All Other Methods	5.39	3.07	5.69*	4.21	4.24		

[1] Data from earlier years are available from MDH.

- Note: All data are Minnesota resident abortion statistics unless "Total" is indicated.

[3] Category was added July 1979.

* Percentages for 1980 were incorrectly reported in the 1980 Report, and are corrected here.

[5] In 1982, side effects experienced by abortion recipients were for the first time reported as complications by some providers altering 1982 data in such a way that it cannot be directly compared to 1981 data. See page 7.

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

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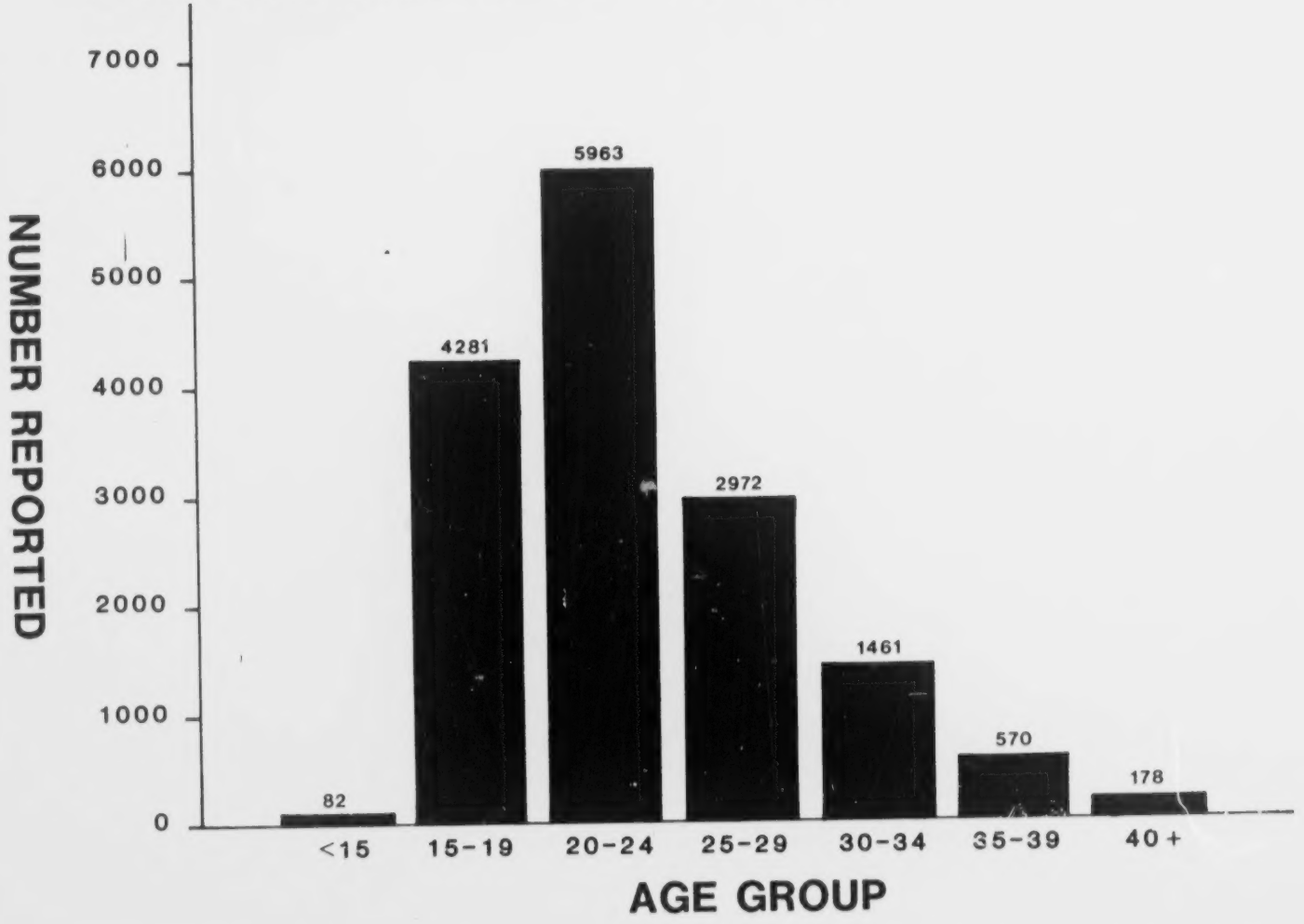
GRAPH 2

REPORTED INDUCED ABORTIONS
NUMBER REPORTED BY RECIPIENT's AGE
MINNESOTA RESIDENTS, 1982



SOURCE: Minnesota Department of Health, Minnesota Center for Health Statistics

Table 2

REPORTED INDUCED ABORTIONS
BY AGE GROUP AND RESIDENCE

MINNESOTA, 1982

Age Group	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
<15	97	0.5	82	0.5	84.5
15-19	4,982	28.1	4,281	27.5	85.9
20-24	6,826	38.4	5,963	38.3	87.4
25-29	3,292	18.5	2,972	19.1	90.3
30-34	1,636	9.2	1,461	9.4	89.3
35-39	665	3.7	570	3.7	85.7
40+	201	1.1	178	1.1	88.6
Unknown	59	0.3	52	0.3	88.1
TOTAL	17,758	100.0	15,559	100.0	87.6

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions (age X)}}{\text{Total Reported Abortions (age X)}} \times 100$

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 3

REPORTED INDUCED ABORTIONS
BY INDIVIDUAL AGE FOR TEENAGE PATIENTS
AND BY SELECTED AGE GROUP BY RESIDENCE

MINNESOTA, 1982

	Total Reported Abortions			Minnesota Resident Abortions			
Age	Number	Percentage of Teens	Percentage of Total	Number	Percentage of Teens	Percentage of Residents	Resident Percentage*
<12	0	0.0	0.0	0	0.0	0.0	0.0
12	3	0.1	0.0	2	0.0	0.0	66.7
13	20	0.4	0.1	16	0.4	0.1	80.0
14	74	1.5	0.4	64	1.5	0.4	86.5
15	252	5.0	1.4	216	5.0	1.4	85.7
16	609	12.0	3.4	516	11.8	3.3	84.7
17	849	16.7	4.8	750	17.2	4.8	88.3
18	1,559	30.7	8.8	1,345	30.8	8.6	86.3
19	1,713	33.7	9.6	1,454	33.3	9.3	84.9
10-19	5,079	100.0	28.6	4,363	100.0	28.0	85.9
20-29	10,118	-	57.0	8,935	-	57.4	88.3
30-39	2,301	-	13.0	2,031	-	13.1	88.3
40+	201	-	1.1	178	-	1.1	88.6
Unknown	59	-	0.3	52	-	0.3	88.1
TOTAL	17,758	-	100.0	15,559	-	100.0	87.6

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}} \times 100$

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 4

REPORTED INDUCED ABORTIONS
BY RACE/ETHNIC GROUP AND RESIDENCE

MINNESOTA, 1982

Race	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
White	16,153	91.0	14,061	90.4	87.0
Black	761	4.3	732	4.7	96.2
American Indian	184	1.0	156	1.0	84.8
Hispanic	126	0.7	118	0.8	93.7
Other	449	2.5	418	2.7	93.1
Unknown	85	0.5	74	0.5	87.1
TOTAL	17,758	100.0	15,559	100.0	87.6

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions (race X)}}{\text{Total Reported Abortions (race X)}} \times 100$

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 5

REPORTED INDUCED ABORTIONS
BY MARITAL STATUS AND RESIDENCE

MINNESOTA, 1982

Marital Status	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
Never Married	12,546	70.6	11,005	70.7	87.7
Married	2,580	14.5	2,247	14.4	87.1
Divorced	1,575	8.9	1,393	9.0	88.4
Separated	613	3.5	541	3.5	88.3
Widowed	83	0.5	72	0.5	86.7
Unknown	361	2.0	301	1.9	83.4
TOTAL	17,758	100.0	15,559	100.0	87.6

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}} \times 100$

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 6

REPORTED INDUCED ABORTIONS
BY AGE GROUP AND MARITAL STATUS

MINNESOTA RESIDENTS, 1982

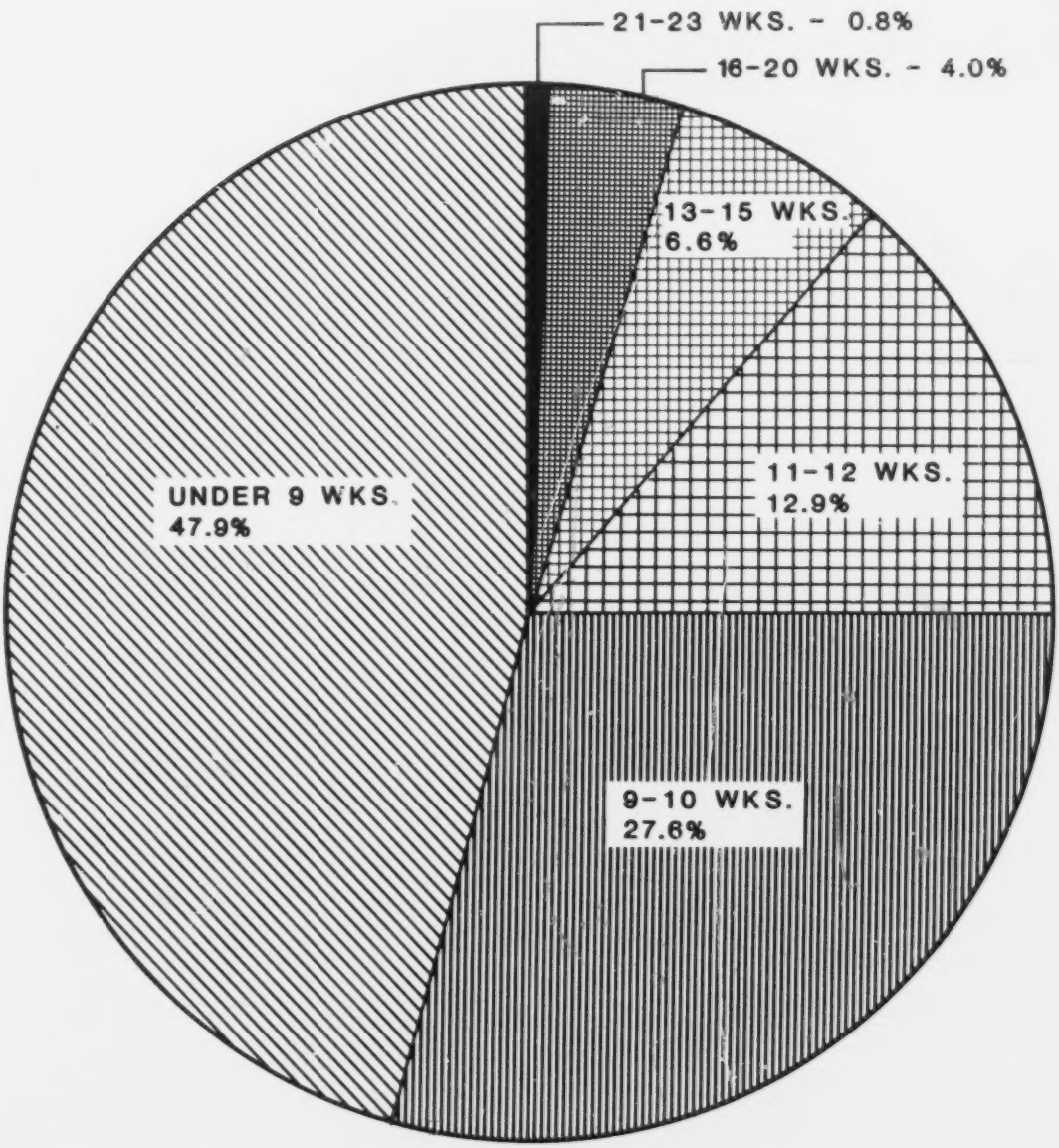
Age Group	Reported Resident Abortions	Marital Status					
		Never Married	Currently Married	Divorced	Separated	Widowed	Unknown
<15	82	82	0	0	0	0	0
15-19	4,281	4,094	93	18	31	0	45
20-24	5,963	4,767	632	269	155	16	124
25-29	2,972	1,511	667	507	199	19	69
30-34	1,461	413	503	376	104	21	44
35-39	570	93	245	178	38	8	8
40+	178	13	101	39	14	8	3
Unknown	52	32	6	6	0	0	8
TOTAL	15,559	11,005	2,247	1,393	541	72	301

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

GRAPH 3

REPORTED INDUCED ABORTIONS

PERCENT OF TOTAL RESIDENT ABORTIONS BY WEEKS OF GESTATION MINNESOTA, 1982



SOURCE: Minnesota Department of Health, Minnesota Center for Health Statistics

Table 7

REPORTED INDUCED ABORTIONS
BY GESTATION AND RESIDENCE

MINNESOTA, 1982

Weeks of Gestation[1] (Post LMP)	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage[2]
	Number	Percentage	Number	Percentage	
<9	8,188	46.1	7,453	47.9	91.0
9-10	4,841	27.3	4,298	27.6	88.8
11-12	2,305	13.0	2,014	12.9	87.4
13-15	1,235	7.0	1,033	6.6	83.6
16-20	962	5.4	629	4.0	65.4
21-23	227	1.3	132	0.8	58.1
TOTAL	17,758	100.0	15,559	100.0	87.6

[1] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

[2] Resident Percentage = $\frac{\text{Minnesota Resident Abortions (week X)}}{\text{Total Reported Abortions (week X)}} \times 100$

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 8

REPORTED INDUCED ABORTIONS
BY AGE GROUP BY WEEKS OF GESTATION
MINNESOTA RESIDENTS, 1982

Age Group	Reported Resident Abortions	Gestation in Weeks* (LMP) <9	9-10	11-12	13-15	16-20	21-23
<15	82	26	22	12	14	6	2
15-19	4,281	1,626	1,213	717	399	268	58
20-24	5,963	2,955	1,636	741	380	206	45
25-29	2,972	1,636	779	324	140	81	12
30-34	1,461	793	409	138	70	45	6
35-39	570	313	165	49	22	14	7
40+	178	80	56	27	7	7	1
Unknown	52	24	18	6	1	2	1
TOTAL	15,559	7,453	4,298	2,014	1,033	629	132

* Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 9

REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR ABORTIONS
AND RESIDENCE

MINNESOTA, 1982

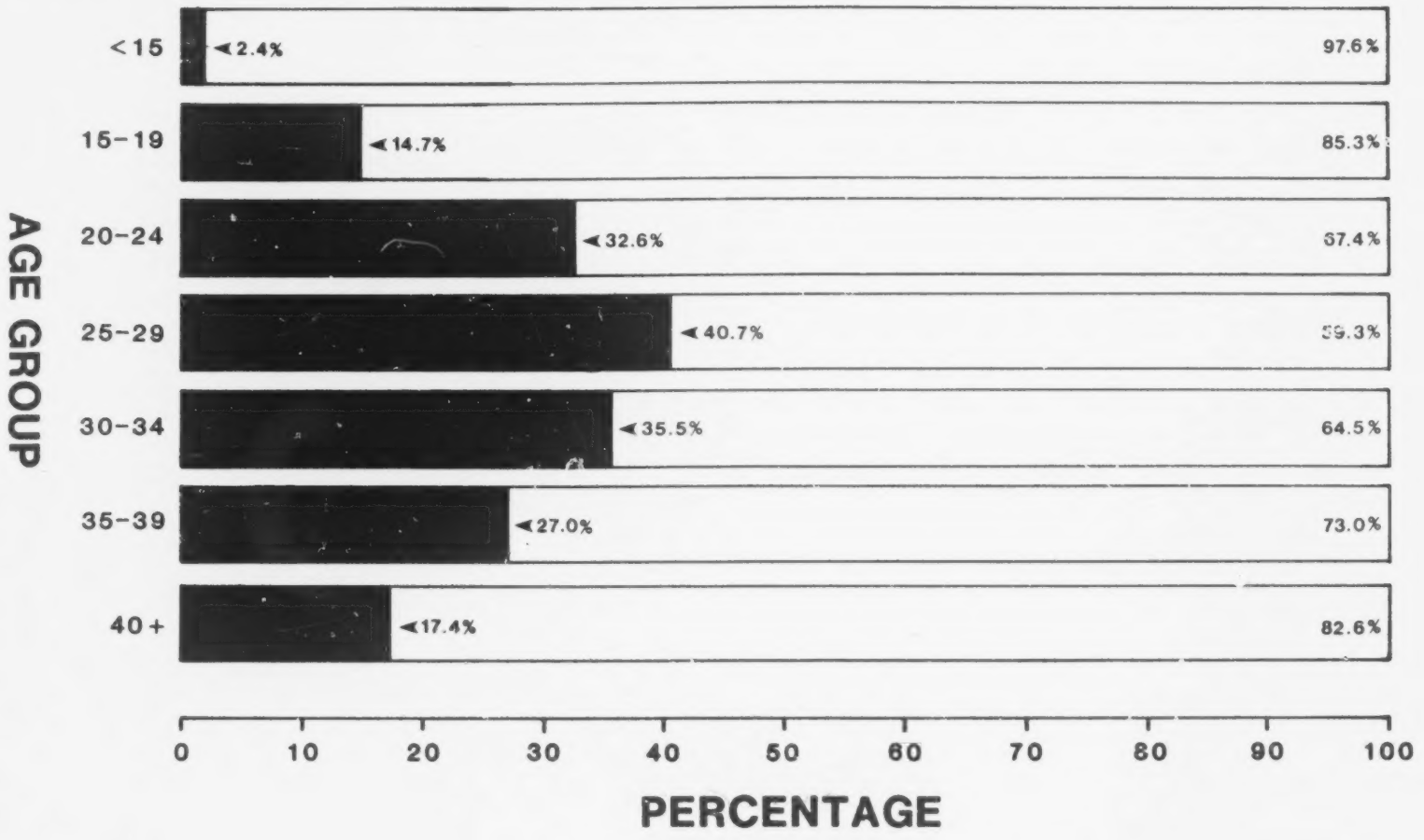
Number of Prior Abortions	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
0	12,182	68.6	10,616	68.2	87.1
1	2,765	15.6	2,472	15.9	89.4
2	1,781	10.0	1,554	10.0	87.3
3	654	3.7	581	3.7	88.8
4	202	1.1	176	1.1	87.1
5+	174	1.0	160	1.0	92.0
Unknown	0	0.0	0	0.0	0.0
TOTAL	17,758	100.0	15,559	100.0	87.6

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}} \times 100$

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

GRAPH 4

REPORTED INDUCED ABORTIONS PERCENT DISTRIBUTION FIRST TIME ABORTION RECIPIENTS VERSUS REPEAT ABORTION RECIPIENTS BY AGE GROUP MINNESOTA RESIDENTS, 1982



SOURCE: Minnesota Department of Health, Minnesota Center for Health Statistics

Table 10

REPORTED INDUCED ABORTIONS
PATIENTS REPORTING PRIOR ABORTIONS
BY AGE GROUP AND RESIDENCE

MINNESOTA, 1982

Age Group	Total Reported Abortions			Minnesota Resident Abortions		
	Number	Abortions[1]	%[2]	Number	Abortions[1]	%[2]
<15	97	2	2.1	82	2	2.4
15-19	4,982	694	13.9	4,281	631	14.7
20-24	6,826	2,164	31.7	5,963	1,941	32.6
25-29	3,292	1,320	40.1	2,972	1,210	40.7
30-34	1,636	580	35.5	1,461	518	35.5
35-39	665	172	25.9	570	154	27.0
40+	201	33	16.4	178	31	17.4
Unknown	59	14	23.7	52	12	23.1
TOTAL	17,758	4,979	28.0	15,559	4,499	28.9

[1] Number of women who reported at least one prior abortion.

[2] Percentage of women within each age group who reported having had at least one prior abortion.

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 11

REPORTED INDUCED ABORTIONS
BY NUMBER OF PRIOR LIVE BIRTHS
AND RESIDENCE

MINNESOTA, 1982

Number of Prior Live Births	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
0	12,182	68.6	10,615	68.2	87.1
1	2,765	15.6	2,472	15.9	89.4
2	1,781	10.0	1,554	10.0	87.3
3	654	3.7	581	3.7	88.8
4	202	1.1	176	1.1	87.1
5	82	0.5	72	0.5	87.8
6	38	0.2	36	0.2	94.7
7	19	0.1	19	0.1	100.0
8	15	0.1	14	0.1	93.3
9+	20	0.1	19	0.1	95.0
Unknown	0	0.0	0	0.0	0.0
TOTAL	17,758	100.0	15,559	100.0	87.6

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions}}{\text{Total Reported Abortions}} \times 100$

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 12

REPORTED INDUCED ABORTIONS
PATIENTS REPORTING PRIOR LIVE BIRTHS
BY AGE GROUP AND RESIDENCE

MINNESOTA, 1982

Age Group	Total Reported Abortions			Minnesota Resident Abortions		
	Number	Prior Live Births[1]	%[2]	Number	Prior Live Births[1]	%[2]
<15	97	1	1.0	82	0	0.0
15-19	4,982	452	9.1	4,281	402	9.4
20-24	6,826	1,739	25.5	5,963	1,555	26.1
25-29	3,292	1,525	46.3	2,972	1,361	45.8
30-34	1,636	1,127	68.9	1,461	998	68.3
35-39	665	530	79.7	570	448	78.6
40+	201	188	93.5	178	167	93.8
Unknown	59	14	23.7	52	12	23.1
TOTAL	17,758	5,576	31.4	15,559	4,943	31.8

[1] Number of women who reported at least one prior live birth.

[2] Percentage of women within each age group who reported having had at least one prior live birth.

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 13

REPORTED INDUCED ABORTIONS
BY METHOD BY WEEKS OF GESTATION

MINNESOTA RESIDENTS, 1982

Method[1]	Reported Resident Abortions	Gestation in Weeks[2] (LMP) <9	9-10	11-12	13-15	16-20	21-23
Suction Curettage	13,908	7,181	4,120	1,867	700	38	2
Laminaria & Curettage	1,030	27	14	11	261	587	130
Combination	592	219	163	136	71	3	0
Prostaglandin	0	0	0	0	0	0	0
Sharp Curettage	3	2	1	0	0	0	0
Hysterectomy Hysterotomy	0	0	0	0	0	0	0
Saline	0	0	0	0	0	0	0
Menstrual Extraction(-)[3]	16	14	0	0	1[4]	1[4]	0
Menstrual Extraction(+)[3]	10	10	0	0	0	0	0
TOTAL	15,559	7,453	4,298	2,014	1,033	629	132

[1] See definitions of methods in index.

[2] Weeks of gestation as reported by the physician using uterine size and/or LMP indicated by the patient.

[3] (-) Negative tissue pathology (not pregnant)
(+) Positive tissue pathology (pregnancy confirmed)

[4] Reported gestational data may be inaccurate, however data privacy regulations make it difficult to trace individual report forms for correction.

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 14

REPORTED INDUCED ABORTIONS
BY METHOD BY COMPLICATIONS AND RESIDENCE
MINNESOTA, 1982

Method[1]	Total Reported Abortions				Minnesota Resident Abortions			
	Procedures	%	Complications	Rate/1000[2]	Procedures	%	Complications	Rate/1000[2]
Suction Curettage	15,493	87.2	102	6.58	12,908	89.4	97	6.97
Laminaria & Curettage	1,521	8.6	6	3.94	1,030	6.6	6	5.83
Combination	715	4.0	2	2.80	592	3.8	0	0
Prostaglandin[3]	0	0	0	0	0	0	0	0
Sharp Curettage	3	0.0	0	0	3	0.0	0	0
Hysterectomy Hysterotomy	0	0	0	0	0	0	0	0
Saline	0	0	0	0	0	0	0	0
Menstrual Extraction(-)[4]	16	0.1	0	0	16	0.1	0	0
Menstrual Extraction(+)[4]	10	0.1	1	100.00	10	0.1	1	100.00
TOTAL	17,758	100.0	111	6.25	15,559	100.0	104	6.68

Reported complications include the categories hemorrhage (≥500 ml), pelvic infection, fever, cervical injury, uterine perforation, retained tissue and other procedure related conditions. In 1982, minor side effects experienced by abortion recipients were for the first time reported as complications. These minor side effects included heavy bleeding (<500 ml), uterine cramping, and elevated temperatures lower than 38° C.

[1] See definitions of methods in the index.

[2] Rate is reported complications per 1,000 abortion procedures.

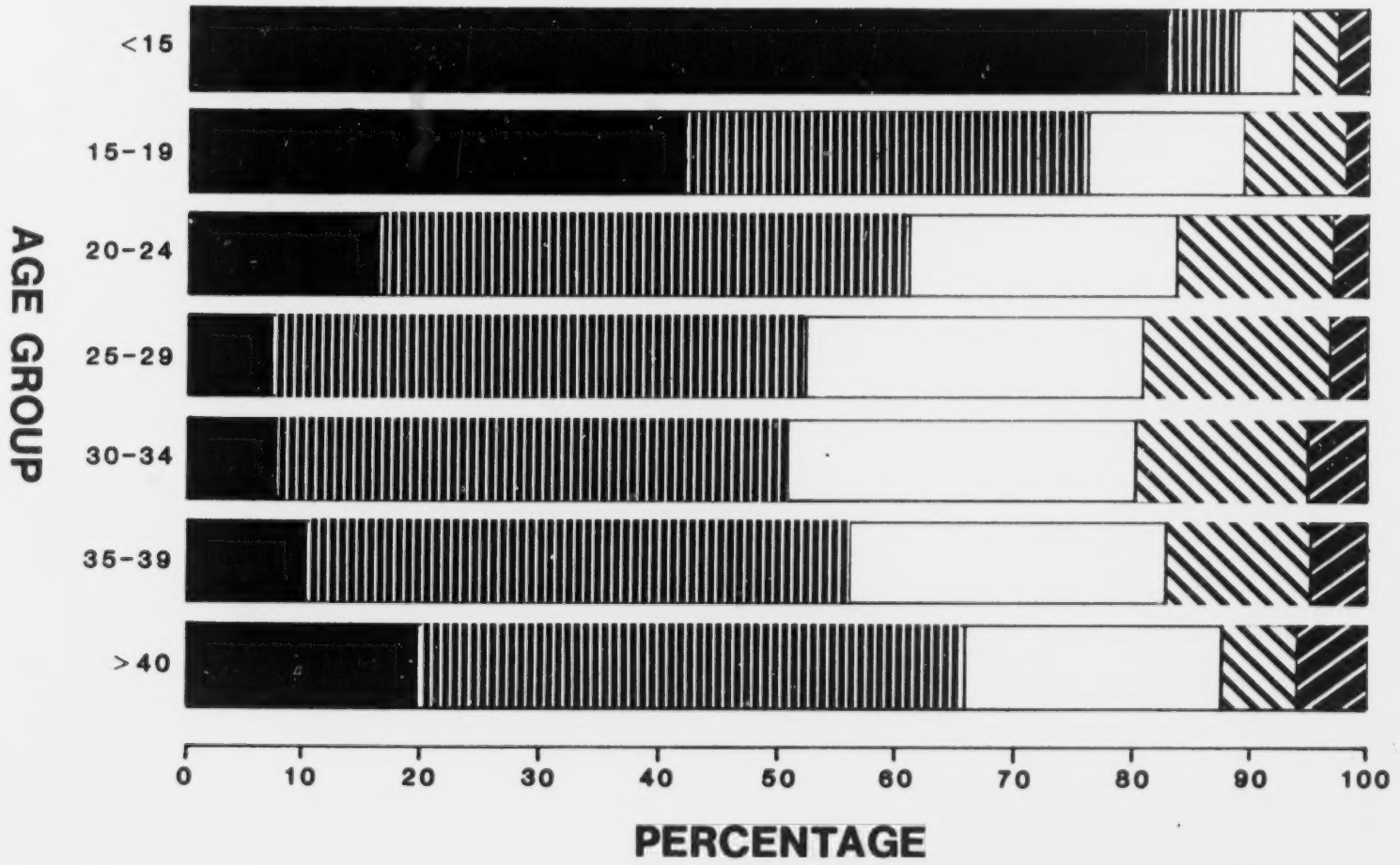
[3] Due to reporting difficulties residence is unknown for all prostaglandin procedure patients.

[4] (-) Negative tissue pathology (not pregnant)
(+) Positive tissue pathology (pregnancy confirmed)

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

GRAPH 5

REPORTED INDUCED ABORTIONS LEVEL OF CONTRACEPTIVE USE BY AGE GROUP MINNESOTA RESIDENTS, 1982*



*The data relative to contraceptive use are subjective as reporting relies on client recall, reporting, etc.

SOURCE: Minnesota Department of Health, Minnesota Center for Health Statistics

Table 15

REPORTED INDUCED ABORTIONS
BY AGE GROUP BY CONTRACEPTIVE USE[1]

MINNESOTA RESIDENTS, 1982

Age Group	Reported Resident Abortions	Reported Contraceptive Use[2]									
		Never Used	%[3]	Discontinued Use	%[3]	In Use	%[3]	Interrupted Use	%[3]	Unknown	%[3]
<15	82	68	82.9	5	6.1	4	4.9	3	3.7	2	2.4
15-19	4,281	1,795	41.9	1,476	34.5	560	13.1	365	8.5	85	2.0
20-24	5,963	945	15.8	2,692	45.1	1,366	22.9	801	13.4	159	2.7
25-29	2,972	196	6.6	1,359	45.7	857	28.8	473	15.9	87	2.9
30-34	1,461	103	7.0	637	43.6	433	29.6	218	14.9	70	4.8
35-39	570	55	9.6	263	46.1	154	27.0	70	12.3	28	4.9
40+	178	34	19.1	83	46.6	39	21.9	11	6.2	11	6.2
Unknown	52	8	15.4	22	42.3	17	32.7	1	1.9	4	7.7
TOTAL	15,559	3,204	20.6	6,537	42.0	3,430	22.0	1,942	12.5	446	2.9

[1] These data relative to contraceptive use are subjective as reporting relies on client recall, reporting, etc.

[2] Responses given--
Never used - I've never used any form of birth control.
Discontinued use - I've used some type of birth control but not when I became pregnant.
In use - I was using contraception when I became pregnant.
Interrupted use - I usually use a method of contraception but through human error it was not effective (missed a pill or two, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)

[3] Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that age group reporting any contraceptive use.

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 16

REPORTED INDUCED ABORTIONS
MARITAL STATUS BY REPORTED CONTRACEPTIVE USE[1]
MINNESOTA RESIDENTS, 1982

Age Group	Reported Resident Abortions	Reported Contraceptive Use[2]									
		Never Used	%[3]	Discontinued Use	%[3]	In Use	%[3]	Interrupted Use	%[3]	Unknown	%[3]
Never Married	11,005	2,823	25.7	4,423	40.2	2,163	19.7	1,347	12.2	249	2.3
Married	2,247	211	9.4	942	41.9	686	30.5	319	14.2	89	4.0
Divorced	1,393	75	5.4	713	51.2	384	27.6	181	13.0	40	2.9
Separated	541	48	8.9	307	56.7	107	19.8	61	11.3	18	3.3
Widowed	72	13	18.1	38	52.8	14	19.4	4	5.6	3	4.2
Unknown	301	34	11.3	114	37.9	76	25.2	30	10.0	47	15.6
TOTAL	15,559	3,204	20.6	6,537	42.0	3,430	22.0	1,942	12.5	446	2.9

[1] These data relative to contraceptive use are subjective as reporting relies on client recall, reporting, etc.

[2] Responses given--
Never used - I've never used any form of birth control.
Discontinued use - I've used some type of birth control but not when I became pregnant.
In use - I was using contraception when I became pregnant.
Interrupted use - I usually use a method of contraception but through human error it was not effective (missed a pill or two, forgot to check for my IUD, did not use my diaphragm once or twice, etc.)

[3] Percent is read horizontally to equal 100%, i.e., each percent is the proportion of women in that marital status reporting any contraceptive use.

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 17

REPORTED INDUCED ABORTIONS
BY AGE GROUP BY TYPE OF CONTRACEPTION AT CONCEPTION*
MINNESOTA RESIDENTS, 1982

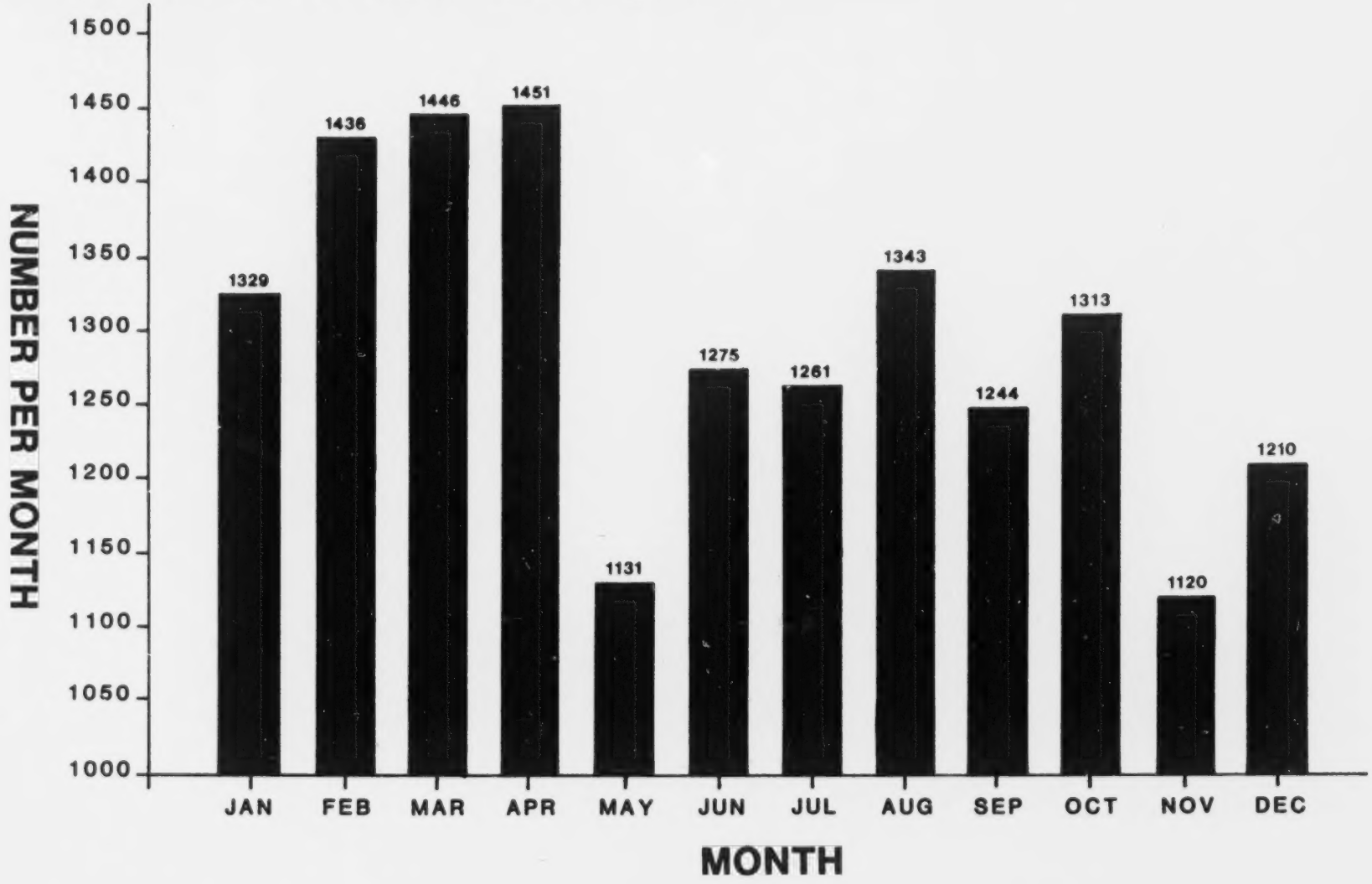
Contraceptive Type	Reported Resident Abortions	Age Group <15	15-19	20-24	25-29	30-34	35-39	40+	Unknown
None	9,741	73	3,271	3,637	1,555	740	318	117	30
Rhythm	248	0	38	82	58	45	18	4	3
Douche/ Withdrawal	131	0	52	47	17	6	7	1	1
Foam	396	1	52	127	105	65	35	9	2
Condom	922	5	298	342	142	96	27	9	3
Foam & Condom	333	0	53	135	87	36	17	5	0
Diaphragm	1,582	0	100	652	542	218	66	4	0
Intrauterine Device	182	0	17	66	49	34	14	1	1
Birth Control Pills	959	0	239	477	165	63	8	3	4
Male/Female Sterilization	49	0	0	8	17	14	4	5	1
Encare Oval	297	0	47	130	59	36	17	6	2
Injectable	4	0	1	2	1	0	0	0	0
Natural Family Planning	117	0	9	34	46	22	4	2	0
Other	598	3	104	224	129	86	35	12	5
TOTAL	15,559	82	4,281	5,963	2,972	1,461	570	178	52

* These data relative to contraceptive use are subjective as reporting relies on client recall, reporting, etc.

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

GRAPH 6

REPORTED INDUCED ABORTIONS
NUMBER OF ABORTIONS BY MONTH PERFORMED
MINNESOTA RESIDENTS, 1982



SOURCE: Minnesota Department of Health, Minnesota Center for Health Statistics

Table 18

REPORTED INDUCED ABORTIONS
BY QUARTER AND RESIDENCE

MINNESOTA, 1982

Quarter	Total Reported Abortions		Minnesota Resident Abortions		Resident Percentage*
	Number	Percentage	Number	Percentage	
Jan - Mar	4,827	27.2	4,211	27.1	87.2
Apr - June	4,366	24.6	3,857	24.8	88.3
July - Sept	4,408	24.8	3,848	24.7	87.3
Oct - Dec	4,157	23.4	3,643	23.4	87.6
TOTAL	17,758	100.0	15,559	100.0	87.6

* Resident Percentage = $\frac{\text{Minnesota Resident Abortions (quarter X)}}{\text{Total Reported Abortions (quarter X)}} \times 100$

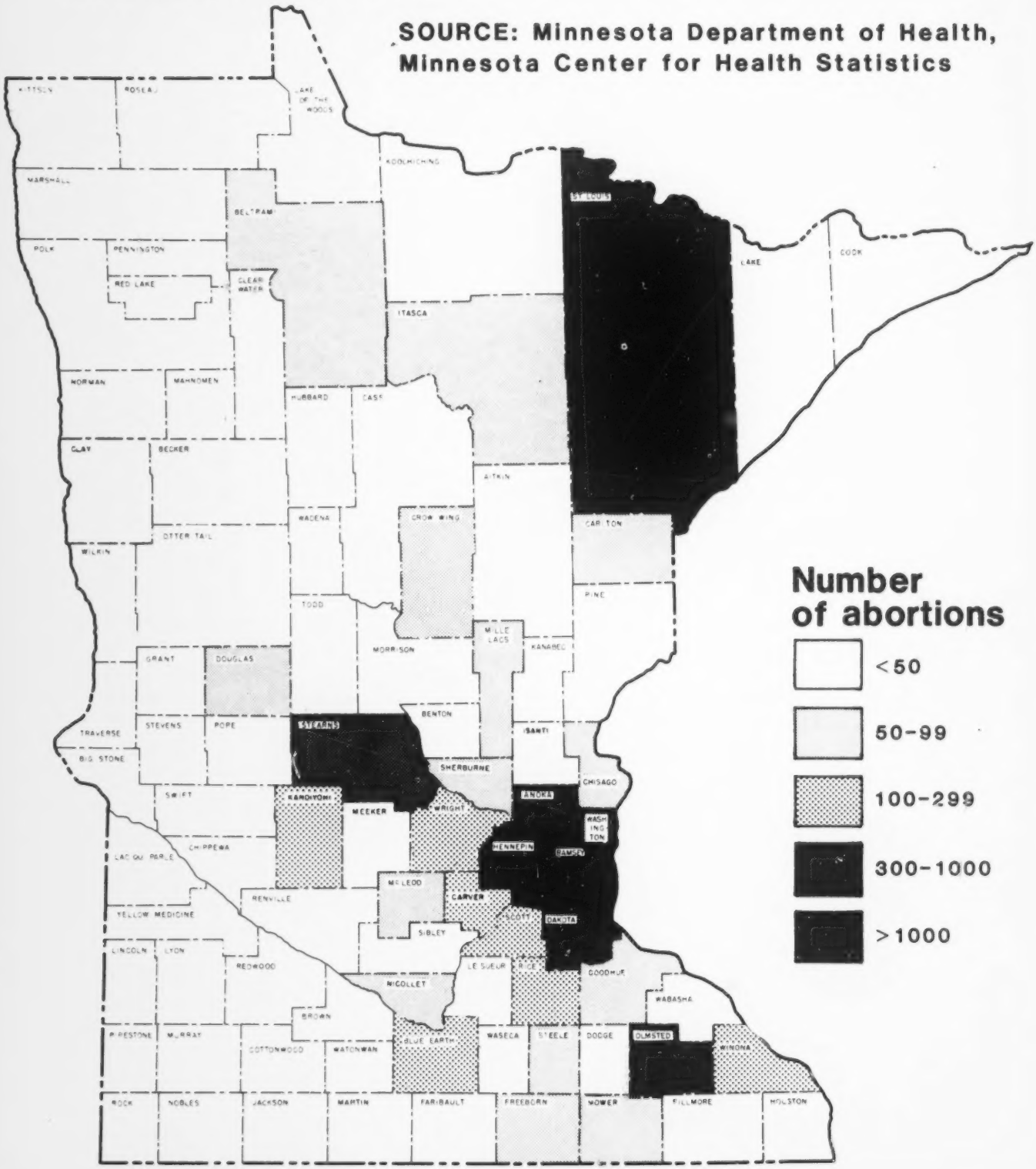
Source: Minnesota Department of Health
Minnesota Center for Health Statistics

BEST AVAILABLE COPY

GRAPH 7

REPORTED INDUCED ABORTIONS BY COUNTY OF RESIDENCE MINNESOTA, 1982

SOURCE: Minnesota Department of Health, Minnesota Center for Health Statistics



Minnesota Department of Health - 1983

Table 19

REPORTED INDUCED ABORTIONS
OCCURRING IN MINNESOTA TO NON-MINNESOTA RESIDENTS
BY STATE OR COUNTRY OF RESIDENCE, 1982

State of Residence	Reported Abortions	
	Number	Percentage
Alaska	2	0.1
Arizona	1	0.0
California	5	0.2
Colorado	5	0.2
Connecticut	2	0.1
District of Columbia	1	0.0
Florida	4	0.2
Georgia	1	0.0
Hawaii	2	0.1
Illinois	59	2.7
Indiana	4	0.2
Iowa	144	6.5
Kansas	1	0.0
Maine	1	0.0
Massachusetts	2	0.1
Michigan	52	2.4
Mississippi	1	0.0
Missouri	3	0.1
Nebraska	2	0.1
Nevada	2	0.1
New York	5	0.2
North Dakota	113	5.1
Ohio	2	0.1
Oklahoma	1	0.0
Pennsylvania	1	0.0
South Dakota	268	12.2
Texas	4	0.2
Utah	1	0.0
Virginia	1	0.0
Washington	1	0.0
Wisconsin	1,330	60.5
Wyoming	2	0.1
Country of Residence		
Canada	160	7.3
Mexico	1	0.0
Other & Unknown	15	0.7
TOTAL	2,199	100.0

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

Table 20

NUMBER OF ABORTIONS OCCURRING IN OTHER STATES
TO MINNESOTA RESIDENT WOMEN, 1982*

State	Number
Arizona	1
Arkansas	1
Kansas	2
Nebraska	5
New York	8
North Dakota	583
Oklahoma	1
South Dakota	42
Total	643

* This table is based on data voluntarily provided to the Minnesota Department of Health, by health departments from selected states.

Source: Minnesota Department of Health
Minnesota Center for Health Statistics

DEFINITIONS*

ABORTION, INDUCED:

The intentional, premature removal from the uterus of a non-viable fetus.

ABORTION, RESIDENT:

Abortions to Minnesota residents which occurred in Minnesota and were reported during this Surveillance.

ABORTION RATE:

The number of abortions per 1,000 women in the population aged 15-44 years.

BIRTH RATE:

The number of live births per 1,000 population.

COMPLICATIONS:

Any unfavorable condition related to the abortion as reported by the provider facility including: hemorrhage ($\geq$ 500 ml), pelvic infection, fever, cervical injury, uterine perforation, or retained tissue.

CURETTE:

A spoon-shaped surgical instrument.

CURETTAGE:

The removal of material from the uterine wall with a curette. Also, the induction of endometrial bleeding by administration and withdrawal of any progestational agent.

FERTILITY RATE:

The number of live births per 1,000 women in the population aged 15-44 years.

GESTATION:

The period of development of the fetus, expressed in completed weeks, calculated from the first day of the last menstrual period (LMP).

LAMINARIA:

Sterile, dried marine plant stems which are capable of expanding with fluid absorption.

*As used in this report.

DEFINITIONS*

PREGNANCY RATE:

The number of live births, fetal deaths, and induced abortions per 1,000 women in the population aged 15-44 years.

TRIMESTER:

One third of the total gestational period necessary for a full-term pregnancy. Thirteen weeks are allotted to each trimester. The count of weeks begins with the first day of the last menstrual period.

ABORTION PROCEDURES:

Combination: Two or more abortion methods used simultaneously or sequentially.

Hysterectomy/hysterotomy: Removal of the fetus by means of a surgical incision made in the uterine wall. In the case of hysterectomy, the entire uterus is removed.

Laminaria and curettage (Dilation and Evacuation, D & E): Dilitation of the cervix by insertion of laminaria several hours before removal of uterine contents by suction and sharp curettage.

Menstrual extraction (m. regulation, m. induction): Evacuation of the uterine contents by suction curettage, usually before the 14th day after a missed menstrual period, and before the diagnosis of pregnancy is reliable. Urine pregnancy test may be negative (-) or positive (+).

Prostaglandin: Induction of labor by injection of a prostaglandin (naturally occurring hormone) solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation. Other hormones may be given intravenously to assist labor.

Saline/fluid exchange: Induction of labor by injection of a sterile salt solution into the amniotic sac. Laminaria are often inserted in the cervix several hours before the injection to aid dilation.

Sharp curettage: Mechanical dilation of the cervix with removal of the uterine contents by scraping the uterine wall with a surgical curette.

Suction curettage: Mechanical dilation of the cervix with removal of the uterine contents by low pressure suction created by an electric suction pump.

Complete and return to:

Center for Health Statistics
Minnesota Department of Health
717 Delaware St., S.E.
Minneapolis, Minnesota 55440
(612) 296-5584

5

PLEASE PRINT

REPORT OF INDUCED ABORTION

TYPE OF ADMISSION — FACILITY ID CODE [1]

1 = Inpatient 2 = Outpatient 3 = Clinic 4 = Other _____

MDH use only
12
16
18
20

PATIENT RESIDENCE *(Write in)*

City _____

County _____

State _____

AGE IN YEARS *(Birth Date Optional* Month Day Year *)* — Years

RACE/ETHNICITY — 22
1 = White 2 = Black 3 = American Indian 4 = Hispanic 5 = Japanese/Chinese/Asian 6 = Other 7 = Unknown

MARITAL STATUS — 23
1 = Never Married 2 = Married Now 3 = Widowed 4 = Divorced 5 = Separated 6 = Unknown

CONTRACEPTIVES USED?
1 = Never used any contraceptive method
2 = Have used but discontinued method
3 = Was using at conception *(Method failure – See 46 below*)*
4 = Unknown
5 = Interrupted use of usual method *(Human error – See 46 below*)*

Total number of prior pregnancies to this woman *(a+b+c below)* — 24
a. Total number of live births
b. Fetal deaths, spontaneous abortions
c. Number of prior induced abortions

28

DATE OF ABORTION — 29
Month Day Year

DATE OF LAST NORMAL MENSES (LMP) — 35
Month Day Year

GESTATION WEEKS *(Physicians estimate of completed weeks post LMP)* — 41 Weeks

ABORTION METHOD — 43
1 = Suction curettage
2 = Sharp curettage
3 = Saline/fluid exch
4 = Prostaglandin
5 = Hysterectomy/otomy
6 = Combination *(Circle each)*
7 = Menstrual extr (– preg)
8 = Menstrual extr (+ preg)
9 = Laminaria & curettage (Dilation & evacuation)

COMPLICATIONS OR FAILURES *(Was patient hospitalized? Yes No [Circle one])* Briefly Note any other information — 44
0 = None
1 = Hemorrhage (500 ml)
2 = Pelvic infection
3 = Fever (>38° C)
4 = Cervical injury
5 = Uterine perforation
6 = Retained tissue
7 = Continuing pregnancy
8 = Other *(Specify)* _____

Optional

RELIGIOUS PREFERENCE — 45
1 = Prot 2 = Cath 3 = Jew 4 = Other 5 = None 6 = Unk

*CURRENT CONTRACEPTIVE *(As indicated by 28 above)* — 46
0 = None
1 = Rhythm
2 = Douche or Wthdrwl
3 = Foam
4 = Condom
5 = Foam + Condom
6 = Diaphragm
7 = IUD
8 = Pills
9 = Sterilization (M or F)
A = Suppositories
B = Injectables
C = Natural Family Planning
D = Other _____
E = Combination
F = Unknown

47